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ITSE 1450

Module 4 Project 1

Requirements Gathering for Elevator Control System

1. Document Review:

Examine existing documentation related to current elevator systems, user manuals, and maintenance logs to understand the standard features, common issues, and user expectations.

2. Observation:

Observe the operation of existing elevators, noting:

- How the system responds to multiple button presses at different floors.

- The order in which the elevator serves the requests.

- Safety features and emergency protocols.

- Any delays or inefficiencies in the system.

3. Brainstorming:

Conduct brainstorming sessions with stakeholders including engineers, end-users, maintenance staff, and managers to gather ideas and requirements. Key points might include:

- Ensuring timely response to button presses.

- Prioritizing emergency or accessibility needs.

- Energy efficiency and sustainability considerations.

- Integrating smart technologies and remote monitoring.

4. Sampling:

Collect sample data from a variety of users to understand the diverse needs and potential stress points on the system, including peak usage times, most frequently used floors, and common maintenance issues.

5. Research:

Investigate the latest technologies, industry standards, and best practices in elevator control systems to ensure the system is up-to-date and compliant.

